# بسم الله الرحمن الرحيم

عنوان المحاضرة: Cervical Carcinoma تاريخ المحاضرة: 27/5/2013 المحاضر: د. أحمد شريف طلعت

## **Cervical Cancinoma:**

- •±3000 cases/ year •Incidence falling → due to "Effective Screening"
- ullet Nowadays, most patient are diagnosed in precancerous stages i.e. CIN (cervical intraepithelial neoplasia) aka ullet Cervical Dysplasia

**Etiology:** Oncogenic HPV (esp. types 16, 18): detected in 99.7% of cases of cervical carcinoma

Risk factors: 1-Sexual activity 2-Smoking 3-Immunosuppression

## **Presentation:**

# A) Symptoms:

1-No Symptoms (diagnosed during screening) 2-Post-coital bleeding

3-Inter-menstrual bleeding 4-Vaginal discharge 5-Post-menupausal bleeding B) Signs:

- 1-Clinically: Irregular, friable cervix or ectropion (ectopy)
- 2-Colposcopy → "abnormal cervix"

\*\*Colposcopy is illumination & magnification of the cervix and the tissues of the vagina and vulva, Acetic acid solution (5%) الخل is applied to the surface to improve visualization of abnormal areas

- \*\*The transformation zone is classified as:
- Type 1: completely ectocervical and fully visible,
- •Type 2: partially endocervical but fully visible,
- •Type 3: not fully visible (hidden)

**3-Cone biopsy: (LLETZ: i.e. large loop excision of the transformation zone)** 

## **Investigations:**

- 1-EUA (examination under anesthesia)/Cystoscopy / Sigmoidoscopy
- 2-MRI used for assessing parametria & LNs (any extension beyond cervix  $\rightarrow$  NO surgery allowed)
- 3-Chest X-ray

## **<u>Treatment:</u>** (use only one modality)

#### 1-Early stage (e.g. Stage 1A):

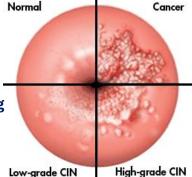
a-Want to preserve fertility  $\rightarrow$  Surgery (Cone biopsy + laparoscopic lymphadenectomy)

b-Doesn't want to preserve fertility → Radical hysterectomy and pelvic lymphadenectomy

## Remember:

- 1-Partial (subtotal) hysterectomy: has no indication at all
- 2-Total hysterectomy: removal of body & cervix
- 3-Radical (Wertheim) hysterectomy: removal of body + cervix + upper part of vagina ( $\rightarrow$  dyspareunia)
- 4-Pan hysterectomy: total + bilateral salpingo-oophrectomy
- c-Cone biopsy can't remove the tumor but still want to get pregnant → "Radical Trachelectomy"

  Removal of cervix + parametrium (with insertion of cerclage to avoid miscarriage)
- 2-Advanced disease: "Chemo/Radiotherapy"
- •Side effects of radiotherapy: 1-Bladder: radiation cystitis, fistula 2-Rectum: radiation colitis, fistula 3-Pelvic tissue: fibrosis 4-Vagina: fibrosis, stenosis
- Side effects of chemotherapy: (Systemic) 1-Immunity suppression 2-Nausea and vomiting
- 3-Hair loss 4-Fatigue 5-Organ toxicity (e.g. Hepatotoxicity, Nephrotoxicity, Ototoxicity)
- **3-Patient will need HRT (Hormone Replacement Therapy)**



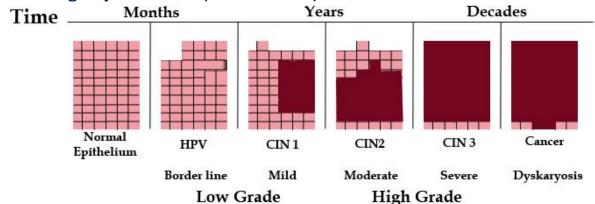


## FIGO Staging of Cervical carcinoma:

- **1**→Carcinoma is strictly confined to the cervix; extension to the uterine corpus should be disregarded.
- Invasive cancer identified only microscopically. Invasion is limited to measured stromal invasion with a maximum depth of 5 mm and no wider than 7 mm.
- 1A1 Invasion of the stroma no greater than 3 mm in depth and no wider than 7 mm diameter.
- 1A2 Invasion of stroma > 3 mm but < 5 mm in depth and no wider than 7 mm in diameter.
- 1B Clinical lesions confined to the cervix or preclinical lesions greater than Stage IA.
- 1B1 Clinical lesions no greater than 4 cm in size.
- **1B2** Clinical lesions greater than 4 cm in size.
- $2 \rightarrow$  Carcinoma extends beyond the cervix, but does not extend into the pelvic wall. The carcinoma involves the vagina, but not as far as the lower third.
- **2A** No obvious parametrial involvement. Involvement of up to the upper two-thirds of the vagina.
- **2B** Obvious parametrial involvement, but not into the pelvic sidewall.
- $3\rightarrow$  Carcinoma has extended into the pelvic sidewall. On rectal examination, there is no cancer-free space between the tumour and the pelvic sidewall. The tumour involves the lower third of the vagina. All cases with hydronephrosis or a non-functioning kidne
- 3A No extension into the pelvic sidewall but involvement of the lower third of the vagina.
- **3B** Extension into the pelvic sidewall or hydronephrosis or non-functioning kidney.
- $4\rightarrow$  Carcinoma that has extended beyond the true pelvis or has clinically involved the mucosa of the bladder and/or rectum.
- 4A Spread of the tumour into adjacent pelvic organs.
- **4B** Spread to distant organs.

# **Cervical Screening & Precancerous life:**

- •1st cervical smear at 25 years
- Dyskaryosis = Abnormal cells = refer to colposcopy
  - **▶** Borderline: refer non urgently if 2 persistent (with 6 m inbetween)
  - ► Mild: refer non urgently if one result
  - ► Moderate: refer urgently if one result
  - ► Severe: refer urgently if one result (within 4 weeks)



#### Liquid base cystology:

-has replaced traditional smear taking, potentially less unsatisfactory smear, Potential for HPV screening

## **Likelihood of Regression, Persistance & Progression:**

	Regression	Invasion
CIN 1	57%	1%
CIN 2	43%	5%
CIN 3	32%	> 12%



<u>Prevention:</u> "Cervical cancer vaccination" (at the age of 9-12 years) •Bivalent → HBV 16,18 •Quadrivalent → HBV 6,11,16,18		
Potential obstacles to vaccine: -Cost efficiency -Public, parent & patient acceptance -Vaccine efficacy -Impact on cervical screening -Intervals between dose schedules -Emergence of other HPV types -Should men??		

O R